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1 [Poster presentations: COG Extractor](#)



Steven R. Bagley

October 2006 **Proceedings of the 2006 ACM symposium on Document engineering DocEng '06**

**Publisher:** ACM Press

Full text available: [pdf\(316.34 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Component Object Graphic (COG) model describes documents as a series of distinct, encapsulated graphical blocks (termed COGs) that are positioned on the page rather than the traditional approach (taken by formats such as PostScript, PDF and SVG) of describing each page as one monolithic block of drawing operators that create marks on the page to form the content. Previous work [1, 2] has demonstrated how this paradigm can be implemented on top of both PDF and SVG. Tools have previously been c ...

**Keywords:** COGs, FormXObject, PDF, SVG, graphic objects

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- Capitalize proper nouns to search for specific people, places, or products.

John Colter, Netscape Navigator

- Enclose a phrase in double quotes to search for that exact phrase.

"museum of natural history" "museum of modern art"

- Narrow your searches by using a **+** if a search term must appear on a page.

museum +art

- Exclude pages by using a **-** if a search term must not appear on a page.

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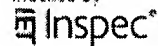
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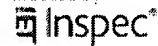
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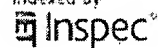
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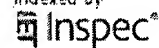
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L2	56	(data near5 stor\$4 near5 extract\$4 near5 delet\$4) and network	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 10:00
L3	5245	extract\$4 near5 (information data) near5 (stor\$4 database\$4 disk\$3 ) near5 imag\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 10:01
L4	23	1 and 3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 10:01
S1	27232	extract\$4 near5 (information data) near5 (stor\$4 database\$4 disk\$3 )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 10:00
S2	227	(extract\$4 near5 (information data) near5 (stor\$4 database\$4 disk\$3 )) same ((delet\$4 remov\$4 cut\$4) near5 extract\$4 near5 (information data))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 13:51
S3	2	(extract\$4 near5 (information data) near5 (stor\$4 database\$4 disk\$3 )) same (client\$4 near5 (delet\$4 remov\$4 cut\$4) near5 extract\$4 near5 (information data))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/20 11:25
S4	2	(extract\$4 near5 (information data) near5 (stor\$4 database\$4 disk\$3 )) same (client\$4 near10 (delet\$4 remov\$4 cut\$4) near5 extract\$4 near5 (information data))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 13:46
S5	2	((extract\$4 near5 (information data) near5 (stor\$4 database\$4 disk\$3 )) same ((delet\$4 remov\$4 cut\$4) near5 extract\$4 near5 (information data))) same (client\$4) same (network\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 13:46

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S7	5	(extract\$4 near5 (information data) near5 (stor\$4 database\$4 disk\$3 )) and (client\$4 near5 (delet\$4 remov\$4 cut\$4) near5 extract\$4 near5 (information data))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 13:48
S8	203	(extract\$4 near5 (information data) near5 (stor\$4 database\$4 disk\$3 )) and (client\$4 near5 (delet\$4 remov\$4 cut\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/20 11:25
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S10	192	((extract\$4 near5 (information data) near5 (stor\$4 database\$4 disk\$3 )) and (client\$4 near5 (delet\$4 remov\$4 cut\$4))) and (client and network)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 13:49
S11	179	((extract\$4 near5 (information data) near5 (stor\$4 database\$4 disk\$3 )) and (client\$4 near5 (delet\$4 remov\$4 cut\$4))) and (client same network)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/20 11:25
S12	20	((extract\$4 near5 (information data) near5 (stor\$4 database\$4 disk\$3 )) and (client\$4 near5 (delet\$4 remov\$4 cut\$4))) and ((client near5 delet\$4 ) same network)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 13:50
S13	33245	extract\$4 near7 (information data) near7 (stor\$4 database\$4 disk\$3 )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 13:51
S14	301	(extract\$4 near7 (information data) near7 (stor\$4 database\$4 disk\$3 )) same ((delet\$4 remov\$4 cut\$4) near5 extract\$4 near5 (information data))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 13:52

## EAST Search History

S15	227	((extract\$4 near5 (information data) near5 (stor\$4 database\$4 disk\$3 )) same ((delet\$4 remov\$4 cut\$4) near5 extract\$4 near5 (information data))) and ((extract\$4 near7 (information data) near7 (stor\$4 database\$4 disk\$3 )) same ((delet\$4 remov\$4 cut\$4) near5 extract\$4 near5 (information data)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 13:52
S16	2	((extract\$4 near5 (information data) near5 (stor\$4 database\$4 disk\$3 )) same (client\$4 near5 (delet\$4 remov\$4 cut\$4) near5 extract\$4 near5 (information data))) and (((extract\$4 near5 (information data) near5 (stor\$4 database\$4 disk\$3 )) same ((delet\$4 remov\$4 cut\$4) near5 extract\$4 near5 (information data))) and ((extract\$4 near7 (information data) near7 (stor\$4 database\$4 disk\$3 )) same ((delet\$4 remov\$4 cut\$4) near5 extract\$4 near5 (information data)))) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 13:52
S17	2	((extract\$4 near5 (information data) near5 (stor\$4 database\$4 disk\$3 )) same ((delet\$4 remov\$4 cut\$4) near5 extract\$4 near5 (information data))) same (client\$4) same (network\$3)) and (((extract\$4 near5 (information data) near5 (stor\$4 database\$4 disk\$3 )) same ((delet\$4 remov\$4 cut\$4) near5 extract\$4 near5 (information data))) and ((extract\$4 near7 (information data) near7 (stor\$4 database\$4 disk\$3 )) same ((delet\$4 remov\$4 cut\$4) near5 extract\$4 near5 (information data)))) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 13:53
S18	13	((extract\$4 near5 (information data) near5 (stor\$4 database\$4 disk\$3 )) and (client\$4 near5 (delet\$4 remov\$4 cut\$4))) and (client and network)) and (((extract\$4 near5 (information data) near5 (stor\$4 database\$4 disk\$3 )) same ((delet\$4 remov\$4 cut\$4) near5 extract\$4 near5 (information data))) and ((extract\$4 near7 (information data) near7 (stor\$4 database\$4 disk\$3 )) same ((delet\$4 remov\$4 cut\$4) near5 extract\$4 near5 (information data)))) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 13:53

## EAST Search History

S19	2	network\$4 near5 (client\$4 user\$4 node\$3) near5 (extract\$4 and delet\$4) near5 (information data)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 13:56
S20	348	(client\$4 user\$4 node\$3) near5 (extract\$4 and delet\$4) near5 (information data)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 13:58
S21	303	((client\$4 user\$4 node\$3) near5 (extract\$4 and delet\$4) near5 (information data)) and (network)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 13:57
S22	3	((client\$4 user\$4 node\$3) near5 (extract\$4 and delet\$4) near5 (information data)) and (decid\$4 near5 delet\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 13:58
S23	12	network same (client\$4 user\$4 node\$3) near5 (extract\$4 and delet\$4) near5 (information data)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 14:00
S24	276	(client\$4 user\$4 ) near5 (extract\$4 and delet\$4) near5 (information data)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 14:02
S25	28	input\$4 same stor\$4 same extract\$3 same decid\$4 same delet\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 14:07
S26	5	(input\$4 same stor\$4 same extract\$3 same decid\$4 same delet\$4) AND network\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 14:04
S27	8269	(data information) same (insert\$4 input\$4) same (stor\$4 save) same delet\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 14:08
S28	27593	(data information) same (insert\$4 input\$4) same (stor\$4 sav\$4) same (delet\$4 remov\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 14:11

## EAST Search History

S29	0	((data information) same (insert\$4 input\$4) same (stor\$4 sav\$4) same (delet\$4 remov\$4)) and (network\$4 same cleint\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 14:09
S30	2986	((data information) same (insert\$4 input\$4) same (stor\$4 sav\$4) same (delet\$4 remov\$4)) and (network\$4 same client\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 14:09
S31	2986	((data information) same (insert\$4 input\$4) same (stor\$4 sav\$4) same (delet\$4 remov\$4)) and (network\$4 same client\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 14:10
S32	34	((data information) same (insert\$4 input\$4) same (stor\$4 sav\$4) same (delet\$4 remov\$4)) and (network\$4 same client\$4)) and (decid\$4 decision\$4) near5 delet\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 14:12
S33	1182	(data information) same (insert\$4 input\$4) same (stor\$4 sav\$4) same (delet\$4 remov\$4) same (extract\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 14:11
S34	80	((data information) same (insert\$4 input\$4) same (stor\$4 sav\$4) same (delet\$4 remov\$4) same (extract\$4)) and (client\$4 same network\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 14:11
S35	12	((data information) same (insert\$4 input\$4) same (stor\$4 sav\$4) same (delet\$4 remov\$4) same (extract\$4)) and (decid\$4 decision\$4) near5 delet\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 14:12
S36	4	((data information) same (insert\$4 input\$4) same (stor\$4 sav\$4) same (delet\$4 remov\$4) same (extract\$4)) and (decid\$4 decision\$4) near5 delet\$4) and network	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 14:17
S37	48	data near5 stor\$4 near5 extract\$4 near5 delet\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 14:18
S38	24	(data near5 stor\$4 near5 extract\$4 near5 delet\$4) and network	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 10:00



## EAST Search History

S39	2689	data near5 (stor\$4 sav\$4) near5 determin\$4 near5 time	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 14:22
S40	29	data near5 (stor\$4 sav\$4) near5 pre-determin\$4 near5 time	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 14:22
S41	24	(data near5 stor\$4 near5 extract\$4 near5 delet\$4) and ((data near5 stor\$4 near5 extract\$4 near5 delet\$4) and network)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/10 14:26
S42	1	"6620207".pn. and (extract\$4 same stor\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/11 10:23
S43	0	"6434533.pn" and (network)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/11 11:16
S44	1	"6434533".pn. and (network)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/11 11:16
S45	9	extract\$4 near5 (email e-mail) near5 delet\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/22 15:36
S46	12	(extract\$4 near5 (e-mail email (electronic near5 messag\$4 )) and (e-mail email (electronic near5 messag\$4 ) ) near5 delet\$4) and (client\$4 near5 delet\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/22 15:38
S47	147	extract\$4 near5 (e-mail email (electronic near5 messag\$4 )) and (e-mail email (electronic near5 messag\$4 ) ) near5 delet\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/22 15:53
S48	292	retriev\$4 near5 (e-mail email (electronic near5 messag\$4 )) and (e-mail email (electronic near5 messag\$4 ) ) near5 delet\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/22 15:53

## EAST Search History

S49	71	retriev\$4 near5 (e-mail email (electronic near5 messag\$4 )) same (e-mail email (electronic near5 messag\$4) ) near5 delet\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/22 16:03
S50	1057	(e-mail email (electronic near5 messag\$4) ) near5 delet\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/22 16:04
S51	227	((e-mail email (electronic near5 messag\$4) ) near5 delet\$4) AND (PREDETERMIN\$4 NEAR5 tim\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/22 16:05
S52	24	((e-mail email (electronic near5 messag\$4) ) near5 delet\$4) same (PREDETERMIN\$4 NEAR5 tim\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/22 16:05
S53	25	(input\$4 near5 featur\$4) same (stor\$4 near5 featur\$4) same (delet\$4 near5 featur\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/01 11:41
S54	20	(input\$4 near5 IMAG\$3 NEAR5 featur\$4) AND (stor\$4 near5 featur\$4) AND (delet\$4 near5 featur\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/01 12:02
S55	13	((input\$4 near5 IMAG\$3 NEAR5 featur\$4) AND (stor\$4 near5 featur\$4) AND (delet\$4 near5 featur\$4)) AND (FEATUR\$4 NEAR5 EXTRACT\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/01 11:51
S56	0	"5659639".pn. AND (FEATUR\$4 NEAR5 EXTRACT\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/01 11:51
S57	1	"5659639".pn. AND (FEATUR\$4 same EXTRACT\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/01 11:52
S58	46	(IMAG\$3 NEAR5 featur\$4) AND (stor\$4 near5 featur\$4) AND (delet\$4 near5 featur\$4) and (extract\$4 near5 featur\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/01 12:03

## EAST Search History

S59	19788	imag\$4 near5 scan\$4 near9 (sav\$4 stor\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/01 15:56
S60	0	(imag\$4 near5 scan\$4 near9 (sav\$4 stor\$4)) and (featur\$4 near5 extrtact\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/01 15:57
S61	663	(imag\$4 near5 scan\$4 near9 (sav\$4 stor\$4)) and (featur\$4 near5 extract\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/01 15:57
S62	46	(imag\$4 near5 scan\$4 near9 (sav\$4 stor\$4)) and (featur\$4 near5 delet\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/01 15:57
S63	29	((imag\$4 near5 scan\$4 near9 (sav\$4 stor\$4)) and (featur\$4 near5 delet\$4)) and (network)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/01 16:03
S64	1	"5659639".pn. and (feature\$4 same extract\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/01 16:04
S65	1	((((imag\$4 near5 scan\$4 near9 (sav\$4 stor\$4)) and (featur\$4 near5 delet\$4)) and (network)) and ("5659639".pn. and (feature\$4 same extract\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/01 16:03
S66	1	"5659639".pn. and ( extract\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 11:04
S67	1	(((((imag\$4 near5 scan\$4 near9 (sav\$4 stor\$4)) and (featur\$4 near5 delet\$4)) and (network)) and ("5659639".pn. and (feature\$4 same extract\$4))) and ("5659639".pn. and ( extract\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/01 16:04
S68	2	"5659639".pn. and ( featur\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 11:22

## EAST Search History

S69	1	("5659639".pn. and ( featur\$4)) and ("5659639".pn. and ( extract\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 11:05
S70	1	"5659639".pn. and ( extract\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 11:07
S71	2	"5659639".pn. and ( image same featur\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 11:09
S72	1	"5659639".pn. and ( delet\$4 near10 featur\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 11:22
S73	3	"6701346".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/20 10:42
S74	1	S73 and (delet\$4 near5 messag\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/20 10:42
S75	26666	extract\$2 near5 (information data) near5 (stor\$4 database\$4 disk\$3 )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/20 11:25
S76	2	(extract\$2 near5 (information data) near5 (stor\$4 database\$4 disk\$3 )) same (client\$4 near5 (delet\$4 remov\$4 cut\$4) near5 extract\$4 near5 (information data))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/20 11:25
S77	196	((extract\$2 near5 (information data) near5 (stor\$4 database\$4 disk\$3 )) and (client\$4 near5 (delet\$4 remov\$4 cut\$4))) and (client same network)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/20 11:25
S78	228	(extract\$2 near5 (information data) near5 (stor\$4 database\$4 disk\$3 )) and (client\$4 near5 (delet\$4 remov\$4 cut\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/20 11:25

## EAST Search History

S79	0	extract\$4 near5 titl\$4 near5 dat\$4 near5 creato\$4 near5 (file\$4 near5 nam\$3) near5 (application\$4 near5 name\$4) near5 keyword\$4 near5 text\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 16:39
S80	2	extract\$4 near5 titl\$4 and dat\$4 and creato\$4 and (file\$4 near5 nam\$3) and (application\$4 near5 name\$4) and keyword\$4 and text\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 16:41
S81	0	removt\$4 near5 titl\$4 and dat\$4 and creato\$4 and (file\$4 near5 nam\$3) and (application\$4 near5 name\$4) and keyword\$4 and text\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 16:41
S82	0	cutt\$4 near5 titl\$4 and dat\$4 and creato\$4 and (file\$4 near5 nam\$3) and (application\$4 near5 name\$4) and keyword\$4 and text\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 16:41
S83	0	cut\$4 near5 titl\$4 and dat\$4 and creato\$4 and (file\$4 near5 nam\$3) and (application\$4 near5 name\$4) and keyword\$4 and text\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 16:41
S84	3	delet\$4 near5 titl\$4 and dat\$4 and creato\$4 and (file\$4 near5 nam\$3) and (application\$4 near5 name\$4) and keyword\$4 and text\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 16:41
S85	24256	extract\$4 near5 featur\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 16:51
S86	126	S85 and (extract\$4 near5 titl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 16:55
S87	28	S85 and (extract\$4 near5 creato\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 16:48
S88	1206	S85 and (extract\$4 near5 text\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 16:52

## EAST Search History

S89	23	S87 and (extract\$4 near5 text\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 16:49
S90	1	S89 and (extract\$4 near5 keyword\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 16:49
S91	4573	retriev\$4 near5 featur\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 16:51
S92	38	S91 and (extract\$4 near5 titl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 16:51
S93	25	S92 and (extract\$4 near5 text\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 16:52
S94	49	S85 and (extract\$4 near5 (whol\$4 entir\$4 full\$3) near5 text\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 17:12
S95	0	"6801902".pn. and (extract\$4 same creat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 17:13
S96	1	"6801902".pn. and (extract\$4 same nam\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 17:13
S97	0	"6801902".pn. and (extract\$4 same keyword\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 17:14
S98	0	"6801902".pn. and (extract\$4 same application\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 17:14

## EAST Search History

S99	2	"6801902".pn. and (extract\$4 same fil\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 17:16
S100	2	"6801902".pn. and (extract\$4 )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 17:17
S101	3	"6701346".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 17:41
S102	6	(client\$3 user\$3 network\$4) near5 (send\$3 transfer\$3 transmit\$3 request\$4) near5 (extract\$4 retriev\$4 pull\$4) near5 (delet\$4 remov\$4 clean\$3) near5 (document\$4 )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 18:37
S103	109	(client\$3 user\$3 network\$4) near5 (send\$3 transfer\$3 transmit\$3 request\$4) near5 (delet\$4 remov\$4 clean\$3) near5 (document\$4 )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 18:37
S104	0	(client\$3 user\$3 network\$4) near5 (send\$3 transfer\$3 transmit\$3 request\$4) near5 (delet\$4 remov\$4 clean\$3) near5 (document\$4 ) near5 featur\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 18:38
S105	4	(client\$3 user\$3 network\$4) near5 (send\$3 transfer\$3 transmit\$3 request\$4) near5 (delet\$4 remov\$4 clean\$3) near5 (document\$4 ) near5 content\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 18:40
S106	198	(client\$3 user\$3 network\$4) near5 (send\$3 transfer\$3 transmit\$3 request\$4) near5 (delet\$4 remov\$4 clean\$3) near5 content\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 18:40
S107	72	S106 and (web document\$4) near5 (featur\$4 content\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 18:41
S108	15	S106 and (web document\$4) near5 (featur\$4 content\$4) near5 (extract\$4 retriev\$4 remov\$4 delet\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 18:41

## EAST Search History

S10 9	0	2002/0007402 and (user\$4 near5 retriev\$4 near5 content\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/28 10:31
S11 0	1	2002/0007402	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/28 10:32
S11 1	0	2002/0007402 and (user\$4 same retriev\$4 same content\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/28 10:32
S11 2	1	2002/0007402 and (user\$4 same retriev\$4 )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/28 10:31
S11 3	1	"20020007402" and (user\$4 same retriev\$4 same content\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/28 14:08
S11 4	1	"20020007402" and (user\$4 same delet\$4 same content\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/28 14:08
S11 5	8483	(delet\$3 remov\$3) near5 confirm\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/01 14:47
S11 6	6	(delet\$3 remov\$3) near5 confirm\$3 near5 document\$3 near5 (portion\$3 part\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/01 14:37
S11 7	198	S115 and predetermin\$3 near5 condition	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/01 14:48



## EAST Search History

S11 8	24334	(remov\$3 delet\$3) near5 (document\$3 text\$3 email)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/01 14:48
S11 9	560	S118 and predetermin\$3 near5 condition	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/01 14:51
S12 0	24	S118 same predetermin\$3 near5 condition	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/01 14:49
S12 1	6	S120 and @ad<"20001027"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/01 14:50
S12 2	239	S119 and @ad<"20001027"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/01 14:50
S12 3	14	S119 and predetermin\$3 near5 condition near5 delet\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/01 14:51
S12 4	8469	extract\$4 near5 (imag\$3) near5 featur\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 18:00
S12 5	55	(delet\$3 remov\$3) near5 extract\$4 near5 (imag\$3) near5 featur\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 18:05
S12 6	14	S125 and (network\$2 internet\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 18:07
S12 7	5	S126 and @ad<"20000101"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 18:02

## EAST Search History

S12 8	6	(delet\$3 remov\$3) near5 (retriev\$4) near5 (imag\$3) near5 featur\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 18:06
S12 9	854	(delet\$3 remov\$3) near5 (imag\$3) near5 featur\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 18:06
S13 0	309	S129 and (network\$2 internet\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 18:07
S13 1	66	S130 and @ad<"20000101"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 18:07
S13 2	22	S124 and S131	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 18:08
S13 3	55	(delet\$3 remov\$3) near5 extract\$4 near5 (imag\$3) near5 featur\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/01 10:38
S13 4	857	(delet\$3 remov\$3) near5 (imag\$3) near5 featur\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/01 10:38
S13 7	3	S134 and extract\$4 near5 (image\$3 near5 featur\$3) near5 (user\$3 cleint\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/01 10:39
S13 8	22	featur\$3 near5 imag\$3 near5 (delet\$3 remov\$3 ) near5 (command\$3 determin\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 17:54
S13 9	23	featur\$3 near5 imag\$3 near5 (delet\$3 remov\$3 ) near5 (command\$3 determin\$3 request\$3 ask\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 14:32

## EAST Search History

S14 0	23	featur\$3 near5 imag\$3 near5 (delet\$3 remov\$3 ) near5 (command\$3 determin\$3 request\$3 ask\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 14:33
S14 1	10	S140 and (internet\$3 network\$3 web\$3 remot\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 14:33
S14 2	19	(US-20020052872-\$ or US-20020007402-\$ or US-20010034743-\$).did. or (US-6658456-\$ or US-6311210-\$ or US-5659639-\$ or US-6684219-\$ or US-6683984-\$ or US-5696844-\$ or US-4685068-\$ or US-5731879-\$ or US-6701346-\$ or US-6807303-\$ or US-6128102-\$ or US-6801902-\$ or US-5537586-\$ or US-5550977-\$ or US-6631212-\$ or US-6999614-\$).did.	US-PGPUB; USPAT	OR	ON	2007/05/23 14:38
S14 3	10	S142 AND image\$3 near5 featur\$3	US-PGPUB; USPAT	OR	ON	2007/05/23 14:38
S14 4	3	S142 AND image\$3 near5 featur\$3 near5 delet\$3	US-PGPUB; USPAT	OR	ON	2007/05/23 14:38
S14 5	805304	S144 and network remot\$3 internet	US-PGPUB; USPAT	OR	ON	2007/05/23 14:38
S14 6	2	S144 and (network remot\$3 internet)	US-PGPUB; USPAT	OR	ON	2007/05/23 14:38
S14 7	370	(delet\$3 remov\$3 extract\$3) near5 document\$3 near5 (titl\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/01 16:41
S14 8	1296	(delet\$3 remov\$3 extract\$3) near5 document\$3 near5 (creat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/01 16:41
S14 9	742	(delet\$3 remov\$3 extract\$3) near5 document\$3 near5 (name\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 09:59

## EAST Search History

S15 0	0	(delet\$3 remov\$3 extract\$3) near5 document\$3 near5 (crea5\$3) near5 (tim\$3 dat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/01 16:43
S15 1	10	S147 and S148 and S149	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/01 16:43